			Dr.	
	Application No.	Applicant(s)	71	
Notice of Allowability	10/085,963	TAYLOR ET AL.		
	Examiner	Art Unit		
	PHAN T.H. PALMER	2874		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.				
1. This communication is responsive to <u>02/28/2002</u> .				
2. The allowed claim(s) is/are <u>1-134</u> .				
3. The drawings filed on are accepted by the Examiner.				
 4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 	e been received.			
3. Copies of the certified copies of the priority documents have been received in this national stage application from the				
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.				
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.				
6. X CORRECTED DRAWINGS (as "replacement sheets") must be submitted.				
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached				
1) hereto or 2) to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).				
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.				
Attachment(s)				
1. Notice of References Cited (PTO-892)	<u> </u>	nal Patent Application (PT	O-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No./Mail	6. ☐ Interview Summary (PTO-413), Paper No./Mail Date		
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	08), 7. ⊠ Examiner's Ame	endment/Comment		
4. Examiner's Comment Regarding Requirement for Deposit		ement of Reasons for Alle	owance	
of Biological Material	9. 🔲 Other			

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EXAMINER'S AMENDMENT Andt/PMP

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows: in figure 3, should added the reference sign (42) "mirror structure 42", as mentioned in the description page 5, line 7.

The following changes to the drawings have been approved by the examiner and agreed upon by applicant: in figure 3, added the reference sign (42). In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

REASON FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance: the claims are allowable over prior art of record, because none of the references in alone or in combination disclose: an array of movable MEMS mirror devices having a high linear

mirror fill factor, comprising:

- a base structure; and

- a plurality of selectively movable mirror structures, each being pivotally supported by a flexure connected to said base structure, and each mirror structure having a reflective surface portion,

the reflective surface portions of the mirror structures being arranged in close proximity to each other and in generally linear alignment forming a row structure, with the flexures supporting adjacent mirror structures being staggered on opposite sides of said row structure.

The underline limitations are disclosed in all independent claims 1, 18, 36, 53, 66, 78, 82, 100, and 117. This limitation is critically, since the MEMS mirror arrays increased linear mirror fill factor include greater mirror surface coverage and reduced optical loss in the same linear space, therefore switch performance is improved.

The Kane et al. (6,681,063) is the closest reference, discloses a MEMS mirror array, each mirror having a reflective surface structure (6), but these reflective surface of the mirror structures arranged are not close to each other. they separate by space of actuators (1a).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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CONTACT INFORMATION

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHAN T.H. PALMER whose telephone number is (571) 272-2354. The examiner can normally be reached on 4/4 OFF MONDAY.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RODNEY B. BOVERNICK can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PTHP 03/22/04

Man.T. H. Palma PHAN T. H. PALMER PRIMARY EXAMINER

03/22/04